

This is your quasi-daily update on the 2023 ABoVE Airborne Campaign

Saturday 8 July 2023

Chip Miller is in California.

Peter Griffith is in Fairbanks.

NASA ABoVE will conduct coordinated airborne and fieldwork in 2023. AVIRIS flights will be flown in Alaska and Canada during the months of July and August. Flights have been planned in coordination with NASA-funded investigators, PIs of affiliated projects, and representatives of Partner Organizations. The L-band SAR and G-LiHT instruments are planned to fly in 2024. ABoVE will coordinate with the AWI Perma-X Flight Campaign and [NEON AOP](#) teams.

More information may be found on the summary page for the [ABoVE 2023 Airborne Campaign](#)

Sensor/Aircraft Summaries and Look Ahead

AVIRIS-3 (Dynamic Aviation B-200 [N53W](#))

July 7-8: AVIRIS flew the Yosemite fire scar Friday and Saturday and claimed the largest single day data collection for their sensors (thanks to the upgrades provided by the version 3 of the instrument).

July 9: Prepare to depart for Fairbanks, date TBD.

- Priority 1 = Deadhorse/Barrow Areas
- Priority 2 = YK Delta
- Priority 3 = Interior AK/Fairbanks Area
- Priority 4 = Inuvik and Trail Valley NWT

Perma-X Flight Campaign ([AWI Polar 6](#))

July 2: Polar 6 arrived in Inuvik.

July 5: Wednesday marked the much-anticipated first day of flying, and we're delighted to report that the data acquisition went smoothly. We followed the Inuvik-Tuktoyaktuk Highway towards the Arctic ocean, capturing super- high-resolution images and LiDAR point clouds. With this data, we continue the time series (first captured in 2018) for monitoring infrastructure in a thawing Arctic. We also managed to gather a comprehensive dataset over the town of Inuvik, which will be of highest value for the town's urban development.

July 7-8: continued science flights.

NEON Airborne Observation Platform #1 ([Daily Flight Reports](#))

NEON plans to base their [AOP Payload 1](#) in Fairbanks Alaska, 27 June to 8 July, 2023, to fly NEON Domain 18. If you are interested in tracking NEON's 2023 season, [sign up to receive daily flight report emails by NEON Domain](#) or visit their [flight report archive](#). Please note, you will only receive emails during the time period the AOP is in the Domain you have signed up to follow.

Weather Forecast: ABoVE Domain

GEOS-FP for ABoVE: https://fluid.nccs.nasa.gov/missions/mission_ABOVE/

Windy weather visualization: <https://www.windy.com/>

FAA Weather Cameras – Interactive map with Alaska and Canadian cameras: weathercams.faa.gov

Note that the Barrow airport weather cam system is down until further notice

The North Slope and Interior Alaska are heavily overcast and getting sporadic rain showers. Some clearing is forecast in the Interior and in northern NWT, in the coming week.

Fire activity

There are only 15 active fires reported in Alaska. There are a few SW of Fairbanks and around Delta Junction, but none large enough to have a significant impact.

7/8/23: Fairbanks AQI = 2 <https://www.iqair.com/us/usa/alaska/fairbanks>

Note at this time in 2022, AQI was >160 for days on end

There are numerous active fires in Northwest Territories having significant impact on air quality in our areas of flight interest around Great Slave Lake and Scotty Creek.

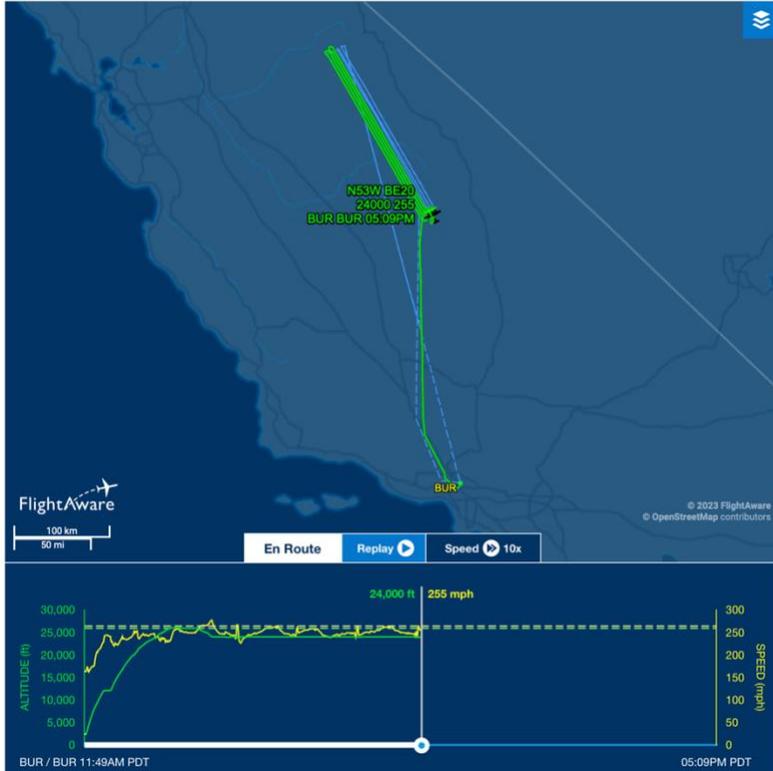
Canadian FireSmoke Forecasts <https://firesmoke.ca/forecasts/current/>

BBQ Forecast

Current forecast of activities of the J. Watts and K. Miner teams indicate their convergence on Fairbanks in the near future. Accordingly, ABoVE is issuing a **BBQ watch for Monday 17 July**. *ABoVE issues a BBQ Watch when there is an increased risk for conditions that may be capable of producing a BBQ. ABoVE issues a BBQ Warning when the probability of a BBQ is near-certain. A warning means you should prepare a dish to share and go to the ABoVE logistics office at 17:30 local time.*

If you do not wish to receive the daily airborne briefing, you may unsubscribe at any time by sending an email to support@cce.nasa.gov with "Unsubscribe Airborne Daily" as the subject.

AVIRIS flight over Yosemite



Canada FireSmoke

